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- 1 [SilkRoute: A framework for publishing relational data in XML](#)
 Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Ch
 December 2002 **Transactions on Database Systems (TODS)** , Volume 27 I

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (687.91 KB)

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Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 98, Downlo

XML is the "lingua franca" for data exchange between interenterprise ap
 SilkRoute, a framework for publishing relational data in XML. In SilkRou
 steps: the relational tables ...

Keywords: XML, XML storage systems, XQuery

- 2 [Holistic twig joins on indexed XML documents](#)
 Halfeng Jiang, Wei Wang, Hongjun Lu, Jeffrey Xu Yu
 September 2003 **VLDB '2003: Proceedings of the 29th international co**
- Volume 29 , Volume 29

Publisher: VLDB Endowment

Full text available: Pdf (390.00 KB)

Additional Information: [full citation](#), [abstrac](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 33, Downloa

Finding all the occurrences of a twig pattern specified by a selection pre
 document is a core operation for efficient evaluation of XML queries. Ho
 proposed recently as an optimal solution ...

- 3 [On the minimization of XPath queries](#)
 S. Fiesca, F. Furfaro, E. Masciari
 February 2008 **Journal of the ACM (JACM)** , Volume 55 Issue 1

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (840.53 KB)

Additional Information: [full citation](#), [abstrac](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 114, Downl

XPath expressions define navigational queries on XML data and are issu
 element nodes. Due to the wide use of XPath, which is embedded into s
 manipulating XML data, the problem of ...

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Keywords: Query containment, XPath expressions, query minimization

4 [Containment and equivalence for a fragment of XPath](#)

 [Gerome Miklau](#), [Dan Suciu](#)

January 2004 **Journal of the ACM (JACM)** , Volume 51 Issue 1

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (367.27 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 102, Downloads (30 Months): 102

XPath is a language for navigating an XML document and selecting a set of nodes. XPath expressions are used to query XML data, describe key constraints, express transformations, and select remote documents. This article studies ...

Keywords: Tree pattern matching, XPath expressions, query containment

5 [A system for the static analysis of XPath](#)

 [Pierre Genevès](#), [Nabil Layaïda](#)

October 2006 **Transactions on Information Systems (TOIS)** , Volume 24 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.31 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 50, Downloads (30 Months): 50

XPath is the standard language for navigating XML documents and returning results. This paper presents a sound and complete decision procedure for containment of XPath decision problems such as satisfiability, ...

Keywords: Containment, XML, XPath, equivalence, logic, query

6 [FlexXPath: flexible structure and full-text querying for XML](#)

 [Sihem Amer-Yahia](#), [Laks V. S. Lakshmanan](#), [Shashank Pandit](#)

June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (437.86 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 93, Downloads (30 Months): 93

Querying XML data is a well-explored topic with powerful database-style XQuery set to become W3C standards. An equally compelling paradigm is full-text search on textual content. In this paper, ...

7 [Path queries on compressed XML](#)

[Peter Buneman](#), [Martin Grohe](#), [Christoph Koch](#)

September 2003 **VLDB '2003: Proceedings of the 29th international conference on Very Large Databases - Volume 29** , Volume 29


Publisher: VLDB Endowment

Full text available:  Pdf (227.35 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 48, Downloads (30 Months): 48

Central to any XML query language is a path language such as XPath within the XML document. We demonstrate in this paper that the tree structure can be manipulated using techniques derived from ...

8 Meta-data indexing for XPath location steps

 SungRan Cho, Nick Koudas, Divesh Srivastava
June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (175.99 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 48, Downloads (All Time): 112

XML is the de facto standard for data representation and exchange over the Internet. Since information available in XML, it is very useful to annotate XML data with quality and sensitivity. When querying ...

Keywords: XML, hierarchical inheritance, meta-data index

9 On boosting holism in XML twig pattern matching using structural information

 Ting Chen, Jiaheng Lu, Tok Wang Ling
June 2005 **SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data**


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (531.08 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Downloads (All Time): 112

Searching for all occurrences of a twig pattern in an XML document is a non-trivial task. Recently a holistic method *TwigStack*. [2] has been proposed. It returns intermediate results which do not contain all the information needed for the final result.

10 Compressing and indexing labeled trees, with applications

 Paolo Ferragina, Fabrizio Luccio, Giovanni Manzini, S. Muthukrishnan
November 2009 **Journal of the ACM (JACM)** , Volume 57 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.11 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 49, Downloads (12 Months): 382, Downloads (All Time): 112

Consider an ordered, static tree T where each node has a label from an alphabet Σ and a degree and shape. Our goal is designing a compressed storage scheme for T that supports operations ...


Keywords: Burrows-Wheeler transform, XML compression, XML indexing, tree indexing, path searching, tree navigation

11 XRel: a path-based approach to storage and retrieval of XML documents

 August 2001 **Transactions on Internet Technology (TOIT)** , Volume 1 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:

 Pdf (264.27 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 166, Downloads (24 Months): 166

This article describes XRel, a novel approach for storage and retrieval of XML databases. In this approach, an XML document is decomposed into nodes and stored in relational tables according to the structure of the XML document.

Keywords: XML query, XPath, text markup, text tagging

12 [Usage-driven storage structures for native XML databases](#)

 [Karsten Schmidt](#), [Theo Härder](#)

September 2008 **IDEAS '08**: Proceedings of the 2008 international symposium on applications

Publisher: ACM

Full text available:  Pdf (429.90 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 76, Downloads (24 Months): 76

There are numerous and influential parameters associated with the selection of storage structures for XML documents within an XML DBMS. The most important parameters are labeling, path synopsis, document container layout, and the choice of the XML schema.


Keywords: XML database, access patterns, storage structures, workload

13 [Optimizing updates of recursive XML views of relations](#)

[Ramadhana Bramandia](#), [Jieleng Cheng](#), [Byron Choi](#), [Jeffrey Xu Yu](#)

December 2009 **The VLDB Journal — The International Journal on Very Large Data Bases**

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (1.53 MB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 53, Downloads (24 Months): 53

XML publishing has been an emerging technique for transforming (porting) XML documents, for example, to facilitate interoperability between heterogeneous applications. XML publishing may update the XML document and ...


Keywords: View updates, XML publishing, XML view updates

14 [Fast structural query with application to chinese treebank sentence re](#)

 [Chia-Hsin Huang](#), [Tyng-Ruey Chuang](#), [Hahn-Ming Lee](#)

October 2004 **DocEng '04**: Proceedings of the 2004 ACM symposium on Document Engineering

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (475.51 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 23, Downloads (24 Months): 23

In natural language processing a huge amount of structured data is contained in the presentation of grammatical structures in sentences. For example the Chinese Treebank of the Institute of Information Science Academia ...

Keywords: XML, structural query, treebank

15 [Succinct ordinal trees with level-ancestor queries](#)

 [Richard F. Geary](#), [Rajeev Raman](#), [Venkatesh Raman](#)

October 2006 **Transactions on Algorithms (TALG)**, Volume 2 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (472.00 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 66, Downloads (24 Months): 112

We consider *succinct* or space-efficient representations of trees that support efficient operations. We focus on static *ordinal* trees, that is, arbitrary static root node are ordered. ...

Keywords: Succinct data structures, XML document representation

16 [Fast ELCA computation for keyword queries on XML data](#)

 [Rui Zhou](#), [Chengfei Liu](#), [Jianxin Li](#)

March 2010 **EDBT '10: Proceedings of the 13th International Conference on Database Theory**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (693.16 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 32, Downloads (24 Months): 58

Keyword search is integrated in many applications on account of the convenience of the intention. Recently, answering keyword queries on XML data has drawn much attention from research communities, because the success of this research ...

17 [Efficient algorithms for processing XPath queries](#)

[Georg Gottlob](#), [Christoph Koch](#), [Reinhard Pichler](#)

August 2002 **VLDB '02: Proceedings of the 28th international conference on Very Large Databases**

Publisher: VLDB Endowment


Full text available:  Pdf (253.83 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Downloads (24 Months): 58

Our experimental analysis of several popular XPath processors reveals that some of the systems requires time exponential in the size of queries in the worst case. We propose a new algorithm that processes much more efficiently, ...

18 [Model checking XML manipulating software](#)

 [Xiang Fu](#), [Tevfik Bultan](#), [Jianwen Su](#)

July 2004 **ISSTA '04: Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (199.58 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 33, Downloads (24 Months): 58

The use of XML as the de facto data exchange standard has allowed integrating software systems regardless of implementation platforms and programming languages. XML provides a rich tree-structured data representation, ...

Keywords: MSL, SPIN, XML, XML schema, XPath, model checking, pror

Also published in:

July 2004 **SIGSOFT Software Engineering Notes** Volume 29 Issue 4

19 [FIX: feature-based indexing technique for XML documents](#)

[Ning Zhang](#), [M. Tamer Özsu](#), [Ihab F. Ilyas](#), [Ashraf Aboulnaga](#)

September 2006 **VLDB '06: Proceedings of the 32nd international conference**

Publisher: VLDB Endowment

Full text available:  [Pdf](#) (965.30 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 35, Downloads (All Time): 112

Indexing large XML databases is crucial for efficient evaluation of XML twig queries. We propose a feature-based indexing technique, called FIX, based on spectral graph theory. It indexes a twig pattern in a collection ...

20 [Enabling Schema-Free XQuery with meaningful query focus](#)

[Yunhao Li](#), [Cong Yu](#), [H. V. Jagadish](#)

May 2008 **The VLDB Journal — The International Journal on Very Large Databases**

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (836.82 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 55, Downloads (All Time): 112

The widespread adoption of XML holds the promise that document structure can be used to optimize database queries. However, users may have only a limited knowledge of the underlying schema to produce a correct XQuery expression, ...

Keywords: Hierarchical, Query language, Schema, Semi-structured, XML

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